#### RIC-2005 Session W-A3

## 10 CFR 50.69 Final Rule Industry Perspectives

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#### **Overview**

- Background
- Final rule
- Risk categorization concepts
- Pilot activities
- Keys to successful implementation
- Conclusions



## **Background**

- PRA strength: Assess relative importance of plant systems, equipment
- §50.69 is fundamental application of this concept:
  - Use risk insights to determine scope of equipment having special regulatory controls
- Lengthy development process
- Enabled by PRA peer review and consensus standard development



## 10 CFR 50.69 Chronology

- 1997 NRC approves STP QA program revision for riskinformed graded QA
- 1998 NRC issues Reg Guide 1.176 on graded QA
- 1999 STP requests broader regulatory exemption to allow full implementation of graded QA
- 1999 SECY-99-356 proposes rulemaking
- 2000 NEI begins work on categorization guideline
- 2001 NRC approves STP exemption
- 2003 Proposed rule issued for comment
- 2004 Proposed final rule issued
- 2004 Final rule issued with Commission-directed changes
- 2005 (Planned) Final regulatory guide, pilot plant submittals



### **Final Rule**

- Issued November 22, 2004
- Major milestone for risk-informed, performance based regulation
  - Focus plant activities and resources consistent with risk
  - Achieve better consistency with risk-informed oversight process
- Provides incentive to:
  - Improve PRA models, meet standards
  - Further integrate risk insights into plant culture



# Risk Categorization Concepts

- NEI-00-04 provides categorization guidance for rule
  - 4 years in development
  - Many iterations, meetings with NRC
- Prepublication version submitted to NRC on February 2
- Requested endorsement through Reg Guide 1.201



# Risk categorization concepts

- Address power operation and shutdown
- Address internal and external events
- Internal events at power PRA with minimum technical capability requirements
- Conservative bounding methods if PRAs not available for shutdown and external initiators
- Uses risk importance measures, sensitivity studies, defense in depth evaluation, final risk impact study, plant decisionmaking panel
- Performance monitoring and feedback



### "RISC-3" SSCs

- Safety related, not risk significant
  - Must still meet design basis functions
  - High level treatment requirements
  - Test and inspection
  - Corrective action
  - Performance monitoring
- EPRI developing treatment guidance for EQ, seismic



## Piloting of Rule

- Essentially complete
- STP regulatory exemption was initial proof of concept
  - Successful implementation
- Wolf Creek and Surry are pilot plants for rule
  - Have undertaken initial categorization efforts
  - Will submit applications following Reg Guide
     1.201 issuance

### Keys to success

- Acceptance of performance based methods in lieu of programmatic controls for low risk SSCs
- Regulatory stability going forward
  - License amendment request considerations
  - Inspection and enforcement
  - Commitments associated with special treatment regulations
  - No need for "trial use" Reg Guide



### Conclusion

- Widespread implementation is industry goal
- Workshops and other activities to facilitate implementation will be conducted
- PRA improvements to meet rule will provide foundation for other initiatives and processes

